

**DEPARTMENT OF FORESTRY AND FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL**

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**CALIFORNIA CODE ADOPTION
Meeting Notes
H-Occupancy Workgroup, H5 Subcommittee
October 21, 2005, 1:00pm
San Jose Fire Department – San Jose, CA**

ATTENDEES:
☒ Indicates presence at meeting
Facilitators:
☒ Jeff Tarter (JT), IES/Fremont Fire Department
Committee or Group Members Present:

- ☐ Gordon Simpkinson, Palo Alta Fire Department
- ☐ Jay Swardenski, Fremont Fire Department
- ☒ Andrew Dyer, San Jose Fire Department
- ☒ Robert Khalipa, San Jose Building Department
- ☒ Nadia Stoian, San Jose Fire Department
- ☒ Mike Randolph, San Jose Fire Department
- ☒ Larry Monet, Santa Clara Fire Department (Ret.)
- ☐ Ken Fujimoto, Fremont Building Department
- ☐ Sean Tobin, IES

CDF/SFM Staff Present:**STAKEHOLDERS IN AUDIENCE:**

- ☒ Dennis Rodriguez, Agilent/Lumileds
- ☒ Ludger Studen, Agilent/Lumileds

DOCUMENT HANDOUTS:

1. Jay Swardenski's comparative analysis for corrosives, toxics and highly-toxic solids and liquids - [JS - TOX 2006 IFC review table.xls](#)
2. Gordon Simkinson's comparative analysis for HPM Gases - [GS - HPMGas.doc](#) and [2006 IFC ReviewSilane.doc](#)
3. Mary Eriksen-Rattan's summary of 2006 I-Code changes relating to HazMat issues - [051013-ICodes HazMat Changes for 2006 Editions.doc](#)

AGENDA:

1. Review handouts to identify issues that the committee believes warrants pursuing the 9-point justification for amending in the current CA code adoption cycle.

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DISCUSSION/COMMENTS:

DATE	DISCUSSION ITEM	COMMENTS	ACTION BY
H5 group review of Control Objectives			
09.07-01	1. Review code to evaluate 2003 IFC and 2001 CFC with respect to the control objectives	Paul Inouye to provide code evaluation matrix to H5 group.	PI
10-13	a. Exiting	Andrew Dyer to check with Dennis Richardson, San Jose Building Official to complete evaluation of control objectives.	AD
	b. Occupancy Group Definition		
	c. Construction		
	d. Height		
	e. Area		
	f. Location on Property	Gordon Simkinson to review requirements for smoke barriers and fire protection systems.	GS
	g. Smoke Barriers		
	h. Definitions		
	i. Occupancy Separations		
	j. Special Hazards	Andrew Dyer presented Naidia's draft comments relating to the control objectives. Naidia to formalize and present written review.	NS
	k. Fire Protection Systems		
	l. Interior Finishes		
H5 group reviewed 2003 IFC and 2004 Supplement to IFC Chapter 18.			
09.07-02	2. 2004 IFC supplement - Numerous changes added referencing section 1805.2.2.4 for pyrophoric liquids and class 3 water reactive liquids.	These changes should reference section 1805.2.3.5, which has been added to regulate Pyro and WR-3 liquids.	INFO
09.07-03	3. 2004 IFC supplement 1803.10.4	This and all references to IMC should be changed to UMC.	INFO
09.07-04	4. 2004 IFC supplement 1803.13.2	Recommend changing reference for gas detection of flammables from 20% LEL to 25% LEL to correspond with IFC definition of flammable vapor or fumes in section 2702.1.	
09.07-05	5. 2004 IFC supplement 1805.2.3.5	New Section – Adds requirements for pyrophoric liquids and class 3 water reactive liquids > 2L.	INFO
09.07-06	6. 2004 IFC Table 1805.2.1 specifies 150 gallons as maximum quantity in use-closed at workstations for corrosive liquids with allowable increases outlined in footnote c,f.	Recommend maintaining (E) CFC Table 5102-B limit of 25 gallons as maximum quantity in use-closed at workstations for corrosive liquids with allowable increases outlined in footnote 2,3.	
09.07-07	7. General Chapter 18 comments	H5 group needs to provide additional comparative review of IFC Chapter 18 with respect to CFC Article 51 – especially tables and cross references between codes.	ALL
Review CA amendments to 2003 IFC - kcfv version.doc			
09.07-08	8. 1803.11 Manual fire alarm system - The appropriate standard of NFPA 72 as amended in Chapter 50 and Article 760 of the California Electrical Code.	The H5 group feels this is more appropriately addressed by work group responsible for incorporating SFM amendments to 907.	INFO
09.07-09	9. 1804.3.1 Separation of incompatible hazardous materials.	H5 group to further evaluate IFC and IBC requirements for separation of incompatible materials, especially in reference to highly-toxics and (E) 201 CFC Table 5102-C.	ALL

Individuals to review chapters relating to specific hazards.			
09.07-10	10. Corrosive, Toxic & High-Toxic Solids and Liquids	Jay Swardenski to provide additional review comments relating to Chapters 31 and 37.	JS
10/21	<p>Reviewed Jay Swardenski's comparative analysis for corrosives, toxics and highly-toxic solids and liquids -JS - TOX 2006 IFC review table.xls</p> <p>Table 2703.1.1(2) and Table 2703.1.1(4) add footnote "g" which increases the exempt amount for ammonia as a corrosive gas from 810 cu.ft. to 150# cylinder(s).</p> <p>3104.2.1 Above-ground outside storage tanks deletes requirement for secondary containment when individual vessel(s) exceed 55-gallons, and thus would not require secondary containment for corrosives until the aggregate exceeds 1,000 gallons</p>	<p>H5 group does not support code requirements for specific materials and recommends eliminating this exception or increasing the exempt amount for corrosive gas to the equivalent cu.ft. corresponding to a 150# ammonia cylinder. However, it was not felt that this warranted pursuing the 9-point justification for this code cycle.</p> <p>H5 group recommend re-inserting requirement for secondary containment when individual containers exceeds 55 gallons. Containers. This issue to be further addressed and coordinated with H4 group.</p>	<p>INFO</p> <p>JS & H4 review group</p>
09.07-11	11. Oxidizers, Water-Reactive, Unstable Reactive, Pyrophoric Solids and Liquids	Andrew Dyer to provide additional review comments relating to Chapters 39 - 44.	AD
09.07-12	12. HPM Gases	Gordon Simpkinson to provide additional review comments relating to Chapters 31, 35, 37 & 41.	GS
10/21	<p>Reviewed Gordon Simkinson's comparative analysis for HPM Gases - GS - HPMGas.doc and 2006 IFC ReviewSilane.doc</p> <p>3704.2.2.7 exempts the requirement for treatment of toxic gases in use when provided with a gas detection system with a sensing interval not exceeding 5 minutes, and an approved automatic-closing fail-safe valve located immediately adjacent to cylinder valves.</p>	The H5 group strongly supports eliminating this exception. GS and Reinhard Hanselka shall prepare a draft 9-point justification for eliminating this exception.	GS & Reinhard Hanselka
09.07-13	13. Flammable/Combustible Liquids and Flammable Solids	Additional review of Chapters 34 and 36 to be assigned.	TBD
10/21		The H5 group recommended that this be addressed by the committees addressing H2 and H3 occupancy requirements.	H2, H3 review committees
10.21-01	Andrew Dyer expressed concern that the minutes and meeting announcements for the H5 group are not being posted on the SFM website.	Coordinate with NorCal's section leaders - Paul Inouye and Kent Miller.	Paul Inouye & Kent Miller

10.21-02	Andrew Dyer provided information from "Joint Policy Collaborative – Building Code Task Force"	Information was provided from Dave Pace, Seagate for information purposes only.	INFO
10.21-03	Mike Randolph presented anecdotal information on various discussions he has had with users, suppliers and vendors on incidents associated with operation and maintenance of EPI reactors and voiced concern over the apparent lack of regulations or guidance in addressing these special hazards.	H5 group suggested Mike review the IFC to determine how it might enable regulators to address this specific issue and provide recommendations back to the review committee. The group also suggested that Mike contact FM Global or Marshal & McLennon to determine if more quantitative information is available on this issue.	MR

ACTION ITEMS (FOLLOW UP) AND RESPONSIBLES:

1. Refer to comments and action columns above.

NEXT MEETING:

Date: Thursday, November 3, 2005 at 1:30pm

Location: Menlo Park Fire Protection District – 300 Middlefield Rd., Menlo Park, CA

Agenda: Coordinate H4 and H5 hazard review committees recommendations.